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NOTICE OF ALLOWANCE AND FEE(S) DUE

48969 7590 903020011 SHOOK, HARDY & BACON L.L.P. (MICROSOFT CORPORATION) INTELLECTUAL PROPERTY DEPARTMENT 2555 GRAND BOULEVARD KANSAS CITY, MO 64108-2613

EXAMINER						
KINSAUL, DANIEL W						
ART UNIT	PAPER NUMBER					
2165	•					

DATE MAILED: 03/30/2011

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/774,575
 02/10/2004
 Herry Sutanto
 306582.01/MFCP.149540
 8896

TITLE OF INVENTION: VOTING BASED SCHEME FOR ELECTRONIC DOCUMENT NODE REUSE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1313 AND MPPE 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

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KANSAS CITY, MO 64108-2613

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(Depositor's name (Signatu (Dat

APPLICATION NO FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 10/774 575 02/10/2004 Herry Sutanto 306582 01/MECP 149540 8896 TITLE OF INVENTION: VOTING BASED SCHEME FOR ELECTRONIC DOCUMENT NODE REUSE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2011		
EXAMINER ART UNIT		ART UNIT	CLASS-SUBCLASS					
KINSAUL, DANIEL W 2165		2165	707-755000	•				
CFR 1.363). Change of corresp Address form PTO/S "Fee Address" inc	lication (or "Fee Address 02 or more recent) attach	ange of Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney; or agent) and the names of up to lined, no name will be printed.					
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	lless an assignee is ident th in 37 CFR 3.11. Com GNEE	ified below, no assignee	THE PATENT (print or typedata will appear on the per a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assignee is ic assignment. and STATE OR COUNT	CRY)	_		
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a. Applicant clain	ntus (from status indicate ns SMALL ENTITY state and Publication Fee (if req records of the United Sta	us. See 37 CFR 1.27.	b. Applicant is no long	ger claiming SMALL EN				
Authorized Signature				Date				

submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for rectucing this burden, should be sent to the Chief Information Officer. U.S. Patest and Trademark Officer. U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 2231-450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 2231-450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONTERMATION NO.

10774,575 02/10/2004 Herry Sutanto 306582.01/AIFCP.149540 8896

45899 7590 03/20/2011
SHOOK, HARDY & BACON LLIP.
MICROSOFT CORPORATION)

SHOOK, HARDY & BACON L.L.P. (MICROSOFT CORPORATION) INTELLECTUAL PROPERTY DEPARTMENT 2555 GRAND BOULEVARD KANSAS CITY, MO 64108-2613

ART UNIT PAPER NUMBER
2165

DATE MAILED: 03/30/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1508 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1508 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom
 of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of
 records may be disclosed to the Department of Justice to determine whether disclosure of these
 records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2004 and 2006. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Application No. Applicant(s) 10/774 575 SUTANTO ET AL. Notice of Allowability Evaminer Art Unit DANIEL KINSALII 2165 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308. This communication is responsive to Amendment of 18 January 2011. 2. The allowed claim(s) is/are 1-24. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) Thereto or 2) To Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413). Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

U.S. Patent and Trademark Office

/DK/ 3-25-11

of Biological Material

9. Other _____.

/Neveen Abel-Jalil/

Supervisory Patent Examiner, Art Unit 2165

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Nema Berezny - attorney for Applicants - on 25 March 2011.

The claims are amended as follows:

 (Currently Amended) A computer-implemented method for processing data using a computer system having processor, memory, and data storage subsystems, the computer-implemented method comprising:

providing a mirror data structure to represent a first data structure;

supplying <u>user</u> input data to a plurality of parser analysis engines via snapshots of the mirror data structure;

operating on the snapshots by the plurality of parser analysis engines to form a second data structure, wherein the second data structure includes at least a first set of leaf nodes under a first ancestor node and a second set of leaf nodes under a second ancestor node: identifying one or more potential candidate nodes for the first ancestor node via the processor based, at least in part, on <u>a bottom-up hierarchical structured selection of</u> ancestor nodes from the first data structure associated with the leaf nodes in the first set:

identifying one or more potential candidate nodes for the second ancestor node via the processor based, at least in part, on a bottom-up hierarchical structured selection of ancestor nodes from the first data structure associated with the leaf nodes in the second set:

assigning the first ancestor node based on a top-down hierarchical structured selection of the potential candidate node most often identified as associated with the leaf nodes in the first set; and

assigning the second ancestor node based on a <u>top-down hierarchical structured</u> selection of one or more criteria other than the potential candidate node most often identified as associated with the leaf nodes in the second set.

6. (Currently Amended) A computer-implemented method for processing data using a computer system having processor, memory, and data storage subsystems, the <u>computer-implemented</u> method comprising:

transforming <u>user input</u> data from a first data structure to a second data structure via one or more intermediate mirror data structures, wherein the second data structure includes at least a first set of leaf nodes under a first ancestor node and a second set of leaf nodes under a second ancestor node:

identifying one or more potential candidate nodes for the first ancestor node via a vote based processing of the processor based, at least in part, on parent nodes from the first data structure associated with the leaf nodes in the first set:

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identifying one or more potential candidate nodes for the second ancestor node via the vote based processing of the processor based, at least in part, on parent nodes from the first data structure associated with the leaf nodes in the second set;

assigning the first ancestor node based on a selection of the potential candidate node most often identified from the vote based processing as associated with the leaf nodes in the first set, wherein the assigned first ancestor node comprises data preserved and maintained from the first data structure; and

assigning the second ancestor node based on a selection of one or more criteria including the potential candidate node most often identified from the vote based processing as associated with the leaf nodes in the second set, wherein:

said transforming data, said identifying one or more potential candidate nodes for the first ancestor node, said identifying one or more potential candidate nodes for the second ancestor node, said assigning the first ancestor node, and said assigning the second ancestor node are all conducted incrementally as additional user input is received.

14. (Currently Amended) A data processing computer system having processor, memory, and data storage subsystems, the data processing computer system comprising:

a computer-readable storage medium containing user input data representing a first data structure:

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a parser, comprising: one or more mirror data structures of the first data structure

received by one or more parser analysis engines, wherein the one or more parser analysis

engines operate concurrently with the user input to the first data structure; and

a processor programmed and adapted to: (a) transform the user input data in the

first data structure to a second data structure via the one or more mirror data structures,

wherein the second data structure includes at least a first set of leaf nodes under a first

ancestor node and a second set of leaf nodes under a second ancestor node; (b) identify

one or more potential candidate nodes for the first ancestor node via a vote based

processing of based, at least in part, on ancestor nodes from the first data structure

associated with the leaf nodes in the first set; (c) identify one or more potential candidate

nodes for the second ancestor node via the vote based processing of the based, at least in

part, on ancestor nodes from the first data structure associated with the leaf nodes in the

second set; (d) assign the first ancestor node based on a selection of the potential

candidate node most often identified $\underline{\text{from the vote based processing}}$ as associated with

the leaf nodes in the first set; and (e) assign the second ancestor node based on a selection

of one or more criteria including the potential candidate node most often identified $\underline{\text{from}}$

the vote based processing as associated with the leaf nodes in the second set.

18. (Currently Amended) A data processing computer system having processor,

memory, and data storage subsystems, the data processing computer system comprising:

a computer-readable medium containing user input data representing a first data

structure;

one or more mirror data structures representing the first data structure and sent to a corresponding one or more parser analysis engines, wherein the one or more parser analysis engines operate on the one or more mirror data structures concurrently with the user input data to the first data structure; and

a processor programmed and adapted to: (a) transform data in the first data structure to a second data structure via the one or more mirror data structures, wherein the second data structure includes at least a first set of leaf nodes under a first ancestor node and a second set of leaf nodes under a second ancestor node; (b) identify one or more potential candidate nodes for the first ancestor node based, at least in part, on a bottom-up hierarchical structured selection of ancestor nodes from the first data structure associated with the leaf nodes in the first set; (c) identify one or more potential candidate nodes for the second ancestor node based, at least in part, on a bottom-up hierarchical structured selection of ancestor nodes from the first data structure associated with the leaf nodes in the second set; (d) assign the first ancestor node based on a top-down hierarchical structured selection of the potential candidate node most often identified as associated with the leaf nodes in the first set, wherein the assigned first ancestor node comprises data preserved and maintained from the first data structure; and (e) assign the second ancestor node based on a top-down hierarchical structured selection of one or more criteria other than the potential candidate node most often identified as associated with the leaf nodes in the second set

Allowance

Art Unit: 2165

3. Claims 1-24 are allowed. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: the prior art of record does not render obvious, nor anticipate the combination of claimed elements, including the limitations of "providing a mirror data structure to represent a first data structure...snapshots of the mirror data structure...operating on the snapshots by the plurality of parser analysis engines to form a second data structure" and "assigning the first ancestor node...assigning the second ancestor node..." in accordance with a hierarchical or vote based processing of nodes, as recited in independent claims 1, 6, 14 and 18. Dependent claims 2-5, 7-13, 15-17 and 19-24 are allowed at least by virtue of their dependencies from the independent claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Barbara et al (US Pat. No. 5,710,916) discloses a system for determining distance between two handwritten strings in a database that includes a child/leaf node analysis.

Beernick et al (US Pat. No. 5,680,480) discloses a method for training a recognizer that utilizes a tree-node structure for characters. Jourjine (US Pat. No. 5,991,441) discloses a real-time handwriting recognition system that includes a node-tree analysis section.

Loudon et al (US Pub. No. 2003/0190074 A1) discloses a handwriting recognition system for ideographic characters that include lexical trees.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL KINSAUL whose telephone number is (571)272-9014. The examiner can normally be reached on Monday through Thursday, 8:00am till 5:00pm, alternate Fridays, est..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Neveen Abel-jalil can be reached on (571)272-4074. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Neveen Abel-Jalil/ Supervisory Patent Examiner, Art Unit 2165